

**DRAFT**

1           26. (New) A device for monitoring an analyte in an environment, said  
2 device comprising:

3           at least one sensor array, wherein said at least one sensor array comprises  
4 at least two sensors capable of producing a first response in the presence of a chemical  
5 stimulus, said at least two sensors consisting of sensors selected from the group consisting  
6 of an electrochemical sensor, a chemiresistor, a SAW sensor and combinations thereof;

7           a second sensor which is capable of producing a second response in the  
8 presence of a physical stimulus, wherein said physical stimulus is an electrical stimulus;

9           a connector that connects said at least one sensor array and said second  
10 sensor to a central processing unit, said central processing unit collects and stores said  
11 first and second responses; and

12           an analyzer configured to analyze a plurality of responses wherein said  
13 analyzer monitors said analyte in said environment.

1           27. (New) The device according to claim 26, wherein said second  
2 sensor detects a charge or current.

1           28. (New) The device according to claim 26, wherein said device is a  
2 handheld device.

1           29. (New) The device according to claim 28, wherein each of said at  
2 least two sensors is a conducting/nonconducting regions sensor.

1           30. (New) The device according to claim 26, wherein the second  
2 sensor further determines the velocity or acceleration of said analyte.

1           31. (New) The device according to claim 28, wherein said handheld  
2 device further comprises a communication interface coupled to the processing device and  
3 configured to communicate with a computer network.

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